

PAT-NO: JP362123218A

DOCUMENT-IDENTIFIER: JP 62123218 A

TITLE: MONITORING DEVICE FOR FURNACE INSIDE

PUBN-DATE: June 4, 1987

INVENTOR-INFORMATION:

NAME

TAGAMI, ICHIZO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

ISHIKAWAJIMA HARIMA HEAVY IND CO LTD

N/A

APPL-NO: JP60262399

APPL-DATE: November 25, 1985

INT-CL (IPC): F23M011/04

US-CL-CURRENT: 431/16

ABSTRACT:

PURPOSE: To confirm the property and distribution of fly ash in a furnace as well as the correct distribution of temperature in the furnace by a method wherein the titled device is equipped with a light collector, catching a flame, including smoke and fly ash in the furnace, as the image of flame, a spectroscope having a predetermined function, an image sensor and an operator.

CONSTITUTION: An electronic television camera 3 is principally consisting of a light collector 5, catching a flame 4, including smoke and fly ash in a furnace 1, as the image of flame, a spectroscope 9, dividing the image of flame 6 introduced through a space imaging system collected by the light collector 5

or an image fiber into two spectral flame images 7, 8 having wave lengths  $\lambda_A$ ,  $\lambda_B$ , and image sensors 12, 14 converting the spectral flame images 7, 8 into pickup amounts 10, 11 respectively. An analog/digital converter 15 is connected to the image sensors 12, 13 while an operator 16, operating the temperature and emissivity of the flame 4 from a digital amount 14, is connected to the converter 15.

COPYRIGHT: (C)1987,JPO&Japio